AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listing, of claims in the application:

Listing of Claims:

1-20.   (Cancelled).

21.   (New) A method for controlling metamerism by providing a plurality of formulas that are suitable for producing a color for at least two different types of colored materials, the method comprising:

electronically providing color choices, the color choices selectable to represent the color;

electronically providing criteria choices, the criteria choices selectable to represent at least a characteristic of the at least two different types of colored materials;

electronically receiving a color selection from the color choices;

electronically receiving a first criteria selection from the criteria choices;

electronically receiving a second criteria selection from the criteria choices;

electronically matching the color selection and the first criteria selection and providing a first formula suitable to produce the color represented by the color selection for a first of the at least two different types of colored materials;

electronically matching the color selection and the second criteria selection and providing a second formula suitable to produce the color for a second of the at least two different types of colored materials; and

electronically optimizing the first formula and the second formula to control

metamerism between the first colored material and the second colored

material.

22.   (New) The method of claim 1, further comprising electronically receiving a third

criteria selection from the criteria choices and combining at least one of the first criteria selection

and the second criteria selection with the third criteria selection.

23.   (New) The method of claim 1, wherein the color choices and the criteria choices

are presented in a display.

24.   (New) The method of claim 1, wherein the criteria includes at least one of a

substrate, financial cost, availability, resin, polymer, varnish, printing method, fabrication

method and pigment selection.

25.   (New) The method of claim 1, wherein the criteria includes the ability for a color

to resist at least one of sunlight, water, solvent, acid, alkali, temperature, humidity, abrasion,

cracking, bending, light and ultraviolet radiation.

26.   (New) The method of claim 1, wherein the steps of providing, receiving,

matching and optimizing occur over a communication network.

27.   (New) The method of claim 6, wherein the communication network is the

Internet.

28.   (New) The method of claim 1, wherein the step of optimizing includes modifying

the color represented by the color choices.

29.   (New) The method of claim 1, further comprising storing the color choices and

the criteria choices in an electronic library.

30.   (New) A system for controlling metamerism by electronically providing a

plurality of formulas that are suitable to produce a color for at least two different types of colored

materials, the system comprising:

>a memory that electronically stores a color choice, the color choice is selectable to
>represent the color;

>a color selection module that includes a color selection interface to enable an
>electronic color selection from a plurality of color choices, wherein the color
>choices and color selection are stored in the memory;

>a criteria selection module that includes a criteria selection interface to enable an
>electronic selection of a first criteria selection and a second criteria selection
>from a plurality of criteria choices, the first and second criteria selections and
>criteria choices stored in memory;

>a matching module that electronically matches the color selection and the first
>criteria selection, and electronically matches the color selection and the
>second criteria selection;

>a formula module that provides a first formula suitable to produce the color for a
>first of the at least two different types of colored materials, and provides a
>second formula suitable to produce the color for a second of the at least two
>different types of colored materials; and

>an optimization module, the optimization module electronically optimizes the first
>formula and the second formula to control metamerism between the first
>colored material and the second colored material.

31.   (New) The system of claim 10, wherein the criteria selection interface enables at least a third electronic criteria selection.

32.   (New) The system of claim 11, further comprising a combining modules that combines at least one of the first criteria selection and the second criteria selection with the third criteria selection.

33.   (New) The system of claim 10, further comprising a display that presents the color choices and the criteria choices.

34.   (New) The system of claim 10, wherein the criteria includes at least one of a substrate, financial cost, availability and pigment selection.

35.   (New) The system of claim 10, wherein the criteria includes the ability for a color to resist at least one of sunlight, water, solvent, acid, alkali, temperature, humidity, abrasion, cracking, bending, light and ultraviolet radiation.

36.   (New) The system of claim 10, further comprising a communication network.

37.   (New) The system of claim 16, wherein the communication network is the Internet.

38.   (New) The system of claim 10, wherein the optimizing modules modifies the color represented by the color choice.

39.   (New) The system of claim 10, further comprising an electronic library wherein the color choices and the criteria choices are stored.

40.   (New) The system of claim 19, further comprising a user interface that provides means to add, update and delete information stored in the electronic library.

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